## UNITED STATES TIVIRONMENTAL PROTECTION AGENCY REGION V

DATE: July 26, 1982

SUBJECT: June 3, 1982 Trip Report to Dead Creek Sauget, Illinois

I.1 1/26/82 1542.09

FROM:

Michael C. O'Toole Wichael

TO: File

On June 3, 1982 at 9:00 a.m., I met Tom Powell of the Illinois Environmental Protection Agency (IEPA) at their office in Collinsville, Illinois. Tom drove me to the Dead Creek site in Cahokia, Illinois. My objective was to determine if personal safety equipment would be required for any contactor installing a chain link fence around the perimeter of the site.

Tom and I arrived at the site around 10:00 a.m. The weather was sunny warm and humid and the termperature was approximately 85°F. The creek bed is approximately 10 feet below the bottom of the existing fence. There was water in the creek but it appeared to be stagnant. Tom remarked that he had never seen that much water in the creek. The existing fence (see photographs) was down in several areas and in one location was being held down with rocks. The existing fence was in definite need of replacement.

I decided that it would be necessary to dig a hole every forty paces as close to the existing fence as possible. Tom and I would then use the HNU Photoionizer to determine if any contaminants gases were emanating from the holes. Tom and I dug 42 holes (see attached map) approximately 18-24 inches deep and 9 inches in diameter. Holes numbers 31, 32, 34 and 35 were the only ones that the HNU readout was greater than the 2 ppm background. The readings for those holes was approximately 4 ppm. Tom was surprised that those holes showed greater than background levels. Tom conducted most of the early investigations at the Dead Creek site and he was very familiar with the locations of the heavy contamination discovered by IEPA.

Tom and I decided that the readings from those four holes could be discounted because they were not significantly higher than background. In addition those readings were probably associated with the farming activities at that portion of the site. A soybean crop had just been planted.

Based on this field trip I decided that no personal safety equipment would be required to install the fence.

cc: Tom Powell, IEPA

#### Safety Plan Technical Assistance Team Region V

#### DeadCreek, Sauget, Illinois

ī.	. A. Incident Information: See attached Initial Report Sheet					
	B. Material Information: See attached Chemical Evaluation Sheet(s)					
	C. Incident/Material Information Reliability: Good Fair X Poor					
	D. Background Information: Extensive Minimal X					
	E. Overall Hazard: High Moderate Low_X Unknown					
II.	I. A. Incident/Site Description					
	1. Area Affected: Flat, mostly vacant lots					
	2. Surrounding Population: 50 -100 within ½ mile					
	3. Building(s): Nearest is 100 feet away.					
	4. Topography: Flat except for Creek bed					
	5. Site Paln and Site Sketch Attached: Yes No X					
	B. Comments: Chemical hazards reported for the area are					
	non-volatile compounds, including PCB and heavy metals.					
	metais.					
	C. Site Entry Procedures: See attached Field Information Sheet					
	D. Emergency Precautions: See attached Field Information Sheet					
	E. Emergency Information/Telephone/Communications: See attached Field Information	Sheet				
111.	II. Personnel Protection					
	Level of Protective Clothing: A B C X D					
	<del></del>					
	Was this Subsequently Downgraded?: Yes X No					
	Was this Subsequently Downgraded?: Yes X No  If Yes, Explain: *See Special Instruction on Field Information of Field Information o	ation				
	If Yes, Explain: *See Special Instruction on Field Information Sheet.	ation				
	If Yes, Explain: *See Special Instruction on Field Information Sheet. List Specific Protective Clothing Required: 1. Full-Mask- 2. Pesticide- 3. Acid Suit- 4. Rubbe:	Boots				
	If Yes, Explain: *See Special Instruction on Field Information Sheet.  List Specific Protective Clothing Required:	Boots				
	If Yes, Explain: *See Special Instruction on Field Information Sheet.  List Specific Protective Clothing Required:  1. Full-Mask- 2. Pesticide- 3. Acid Suit- 4. Rubber 5. Purifying Mask 6. Cartridges 7. Pants 8.	Boots				
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Date Prepared: May 21, 1982



## ecology and environment, inc. orhare office Building 1, Suite #501, 10400 West Higgins Road, Rosemont, Illinois 80018, Tel. 312-635-6860

Field Information Sheet

IV.	Site Entry Procedures:							
	Team Size:							
	Station Designation (Name Responsibility) Perform initial survey							
	for volatile materials; then monitor contracting operations.							
	Special Instructions: Perform initial survey of area in level							
	"C", including turning the soil with a shovel and not presence of volatile materials with an HNU meter.							
	presence	of volatile materia	ais with ar	1 HNU met	er.			
v.	Zero meter response allows downgrading.  Emergency Precautions:  Health Hazards: Ingestion or breathing of dusts containing							
٧.								
	Metals or PCB.  Exacuation of Nearby People: Yes No_X_  If Yes, How Large an Area?  Acute Exposure Symptoms (if known): None at present concentrations							
		ructions for above Symptoms:_ is suspected.	Remove II	Jii area r	<u> </u>			
	<u> </u>							
VI.	Emergency Informa	ation Sources:						
		Name	Town	Phone	Notif Yes			
	Fire			(618)				
		Sauget Fire Dept.	Sauget	332-6600	L	х		
	Police	Sauget Police Department	Sauget	(618) 332-6500		x		
	Ambulance			(618)				
	AllibuTance	Sauget Fire Dept.	Sauget	332-6600	ļ	X		
	Hospital	Centerville		(618)	1			
		Town Hospital	Alorton	332-3060 (618)	<u> </u>	X		
	Airport	Bi-State Parks AP	Cahokia	337-6060		x		
	Heliport	i		(618)				
	nerrpore	Bi-State Parks AP	Canokia	337-6060	<u> </u>	X_		
	EPA Contact	Wilso Olmoolo	Chiango	(312)	,,			
		Mike O'Toole	Chicago	886-3008	X	<del> </del>		
	Explosive Unit							
	List Other Resources	Illinois EPA John Renkes	Springfield	(217)				
VII.	Emergency Teleph	<del></del>	<u> </u>	1 /82=/80	₩	<del>- X</del> -		
	E & E Regional Office: (312) 635-6560							
	E & E NPMO Emergency Answersing Service: (716) 882-2804, Pager No. 881-8151							
	Dr, Harbison: 501-370-8263							
	TAT Leaders Home Phone Number: (312) 639-1858 Other: Safety Manager (312) 824-2979							
	Venez. Salety manager (SIZ) 024-27/7							
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VIII.	Communications:  Nearest Telephone: Sauget Police Department							
	nearest inte	PRODUCT POLICE	הבהמד רוומודר					

Prepared By: Jerry Kelly Date Prepared: May 21, 1982



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International Specialists in the Environmental Sciences

	HAZARD EVALUATION OF CHEMI	
		<u>5-8012-1</u>
Chemical Name Chlorobenze	ne	
DOT Name <u>Chlorobenzene</u>		
References consulted (Circle	2)	
HAZMAT Handbook) Chris	Merk Index Aldrich CR	
	(S.	AX)
Chemical Properties:		
Chemical Formula:		Molecular Weight:
C <sub>6</sub> H <sub>5</sub> Cl		112.56
Physical State:	Solubility:	Boiling Point
Liquid Flash Point	Insoluble in Water	131.7°C
29.2°C (CC)	Vapor Pressure: 10 mm @ 22.2	Freezing Point: -45 C
Specific Gravity:	Odor/Odor Threshold:	Flammable Limits:
1.106	Almond-like/0.21 ppm	1.3-7.1%
		· ·
		;
Biological Properties:		
TLV: 75 ppm		
Oral-rat LD <sub>50</sub>	Blueg	111
TLC/TLD: =2910 mg/kg Humar	n: NA Aquatic: 20 ppr	
3, 3	(96 h	
Dermal Toxicity:	(TL <sub>m</sub>	)
Classes Deagneredations		
Cleanup Recommendations:		
Contain with a dike on	land, dam under water;	dredge or pump material
into lined tanks or dum	psters.	
Health Hazards and Recommend	lations:	
Moderately toxic, irri	tant to eyes and nose; i	use positive pressure
		_
SCBA, neoprene gloves,	and neoprene-coated clo	othing.



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Chemical Name <u>Chlo</u> DOT Name References consulta HAZMAT Handbook						5-8112-8
DOT Name References consulta	ed (Circ		:lor 1242			
HAZMAT Handbook	Chris					
		Merk Index	Aldrich	CRC	Toxic Saf	ety Manual
Chemical Properties	s:		_			
Chemical Formula:	(r H -)	()			olecular We	
Physical State:	(C <sub>12</sub> H <sub>10</sub> -)	Solubility:		. r	ot pertine oiling Poir	nt.
-	or liqui	-	low	DC	very hiq	
Flash Point		d Vapor Press	ure:	F	reezing Poi	nt:
286 <sup>0</sup> F					not pert	inent
Specific Gravity:	1.3-1.8 ā	Odor/Odor T	hreshold: N/A	F.	lammable Li N/A	mits:
Biological Properti	ioc.					
				·		
TLV: 0.5-1	$.0 \text{ mg/m}^3$					
TLC/TLD:		inhale an: 10 <sub>10</sub> =794	0278 Aquatic:	3ppm/96m/	bluegil Waterfowl:	LD <sub>50</sub> =2000ppm
Dermal Toxicity: LI	D <sub>lo</sub> (rabb	it)=794 mg/kg				
Cleanup Recommendat	tions:					
Combu	stible- e	extinguish with	water, foa	am dry cl	nemical, or	co <sub>2</sub>
Insol	ate and n	remove discarde	ed material	; harmfı	ıl to aquat	ic life
in ve	ry low co	oncentrations				
Health Hazards and	Recomme	ndations:				
		contact, vapo		avone in	aita ion of	· eves

and throat; equipment should include gloves and p: